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1 [Continuous program optimization: A case study](#)

[Thomas Kistler](#), [Michael Franz](#)

July **Transactions on Programming Languages and Systems (TOPLAS)** , Volume 25 Issue 4 2003

Publisher: ACM [Request Permissions](#)

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Much of the software in everyday operation is not making optimal use of the hardware on which it actually runs. Among the reasons for this discrepancy are hardware/software mismatches, modularization overheads introduced by software engineering considerations, ...

Keywords: Dynamic code generation, continuous program optimization, dynamic reoptimization

2 [Process migration](#)

[Dejan S. Milojkic](#), [Fred Douglass](#), [Yves Paindaveine](#), [Richard Wheeler](#), [Songnian Zhou](#)

September **Computing Surveys (CSUR)** , Volume 32 Issue 3 2000

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Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

3 [Fast detection of communication patterns in distributed executions](#)

[Thomas Kunz](#), [Michiel F. H. Seuren](#)

November **CASCON '97: Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: [Pdf](#) (4.21 MB)

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Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

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4 [Disco: running commodity operating systems on scalable multiprocessors](#)





[Edouard Bugnion, Scott Devine, Kinshuk Govil, Mendel Rosenblum](#)

November 1997

Transactions on Computer Systems (TOCS) , Volume 15 Issue 4

Publisher: ACM

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In this article we examine the problem of extending modern operating systems to run efficiently on large-scale shared-memory multiprocessors without a large implementation effort. Our approach brings back an idea popular in the 1970s: virtual machine ...

Keywords: scalable multiprocessors, virtual machines

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